

WHAT IS CLAIMED IS:

1. A method for analyzing a product for safety in view of a safety incident associated with the product, said method comprising:
 - a) comparing the safety incident to a plurality of previously analyzed safety incidences stored in safety documentation for the product and selecting one of said safety incidences based on the comparison;
 - b) conducting an accident scenario review (ASR) of the safety incident using an existing ASR template previously developed for the selected stored safety incidence;
 - c) modifying the existing ASR template to reflect to suit the ASR for the safety incident;
 - d) based on the accident scenario review, identifying at least one corrective action which avoids or mitigates future occurrences of the safety incident, and
 - e) updating the safety documentation to include the tailored ASR template developed for the safety incident.
2. A method for analyzing a product for safety as in claim 1 wherein the safety incident is an accident which occurred during use of the product in fleet operation.

3. A method for analyzing a product for safety as in claim 1 wherein the safety incident is a potential accident scenario identified during use of the product.

4. A method for analyzing a product for safety as in claim 1 further comprising determining that the safety incident has a severity level above a threshold severity level before proceeding to step (a).

5. A method for analyzing a product for safety as in claim 1 wherein said ASR includes constructing an accident scenario model of the safety incident and said model is based on the tailored ASR template.

6. A method for analyzing a product for safety as in claim 1 wherein said ASR identifies at least one causation for the safety incident and said at least one corrective action is intended to prevent a future occurrence of the causation.

7. A method for analyzing a product for safety as in claim 1 wherein said documentation further comprises a database of analyzed safety incidences and corresponding ASR template.

8. A method for analyzing a product for safety as in claim 1 wherein step (c) includes creating an original ASR using the modified ASR template.

9. A method for analyzing a product for safety in view of a safety incident associated with the product, said method comprising:

- a) record the safety incident in safety documentation for the product;

- b) determining whether the safety incident has a severity level above a threshold severity level before proceeding to step (c);
- c) comparing the safety incident to a plurality of previously analyzed safety incidences stored in the safety documentation and selecting one of said safety incidences based on the comparison;
- d) developing an accident scenario model of the safety incident using as a template an existing accident scenario model developed for the selected safety incidence;
- e) identifying at least one corrective action which avoids the causation of the safety incident, and
- f) updating the safety documentation to include the accident scenario model developed for the safety incident.

10. A method for analyzing a product for safety as in claim 9 wherein the safety incident is an accident which occurred during use of the product in fleet operation.

11. A method for analyzing a product for safety as in claim 9 wherein the safety incident is a potential accident scenario identified during use of the product.

12. A method for analyzing a product for safety as in claim 9 further comprising determining that the safety incident has a severity level above a threshold severity level before proceeding to step (a).

13. A method for analyzing a product for safety as in claim 9 wherein said ASR includes constructing an accident scenario model of the safety incident and said model is based on the tailored ASR template.

14. A method for analyzing a product for safety as in claim 9 wherein said ASR identifies at least one causation for the safety incident and said at least one corrective action is intended to prevent a future occurrence of the causation.

15. A method for analyzing a product for safety as in claim 9 wherein said documentation further comprises a database of analyzed safety incidences and corresponding ASR template.

16. A method for analyzing a product for safety as in claim 1 wherein step (c) includes creating an original ASR using the modified ASR template.